# Journal of Pharmacological and Toxicological Methods

*Contents*

**Volume 27**


**M. BOQUILLON, J. P. BOQUILLON, and J. BRALET**
Photochemically Induced, Graded Cerebral Infarction in the Mouse by Laser Irradiation. Evolution of Brain Edema 1

**MARY F. KANZ, ROBERT F. WHITEHEAD, ANN E. FERGUSON, LATA KAPHALIA, and MARY TREINEN MOSLEN**
Biliary Function Studies During Multiple Time Periods in Freely Moving Rats. A Useful System and Set of Marker Solutes 7

**B. ALEXANDER, R. T. MATHIE, V. RALEVIC, and G. BURNSTOCK**
An Isolated Dual-Perfused Rabbit Liver Preparation for the Study of Hepatic Blood Flow Regulation 17

**MONA SEIF EL NASR, JÖRG NUGLISCH, and JOSEF KRIEGLSTEIN**
Prevention of Ischemia-Induced Cerebral Hypothermia by Controlling the Environmental Temperature 23

**CORD BACKHAUß, CHOUROUK KARKOUTLY, MATTHIAS WELSCH, and JOSEF KRIEGLSTEIN**
A Mouse Model of Focal Cerebral Ischemia for Screening Neuroprotective Drug Effects 27

**PATRIZIA ANGELICO, LUCIANO GUARNERI, BIANCA FREDELLA, and RODOLFO TESTA**
In Vivo Effects of Different Antispasmodic Drugs on the Rat Bladder. Contractions Induced by Topically Applied KC1 33

**TERESA PELISSIER, HUGO MIRANDA, DIEGO BUSTAMANTE, CARLOS PAEILE, and GIANNI PINARDI**
Removal of the Endothelial Layer in Perfused Mesenteric Vascular Bed of the Rat 41

**MARK J. BENVENGA, ROBERT A. DEL VECCHIO, JOHN F. CAPACCHIONE, and THOMAS P. JERUSSI**
An In Vivo Alpha-2 Assay Reversal of Opioid-Induced Muscular Rigidity and Neuroleptic-Induced Ptosis 45

**WILLIAM PENZ, MICHAEL PUGSLEY, M. Z. HSIEH, and M. J. A. WALKER**
A New ECG Measure (RSh) for Detecting Possible Sodium Channel Blockade in Vivo in Rats 51

**HIDEYUKI KOMIDORI, RYUICHI YAMAMOTO, G. ALLEN NICKOLS, and KOICHIRO TAKASAKI**
Characterization of the Isolated Rat Mesenteric Vascular–Intestinal Loop Preparation 59

**FEDOR MEDZIHRADSKY, PAUL J. EMMERSON, and CAROL A. MOUSIGIAN**
Lipophilicity of Opioids Determined by a Novel Micromethod 67

**JAN DE LANGE, PIET VAN ECK, GRAHAM R. ELLIOTT, WIM L. A. M. DE KORT, and OTTO L. WOLTHUIS**
The Isolated Blood-Perfused Pig Ear: An Inexpensive and Animal-Saving Model for Skin Penetration Studies 71

**NAWAB ALI and DEVENDRA K. AGRAWAL**
Liver Microsomes Contain Multiple Forms of Inositol 1,4,5-Trisphosphate Binding Proteins: Identification by Nitrocellulose Blot Overlay 79

**KRYSTYNA LESZCZYNSKA and SEN T. KAU**
A Sciatic Nerve Blockade Method to Differentiate Drug-Induced Local Anesthesia From Neuromuscular Blockade in Mice 85

**ROCIO MOEIRA-LUDEWIG and CYNTHIA T. HEALY**
A Rapid Microtiter Plate Method for the Detection of Lysozyme Release From Human Neutrophils 95

**VIJAYKUMAR M. BARAGI, HOLLIS JORDAN, and RICHARD R. RENKIEWICZ**
A Protocol for Rapid Screening of Proteoglycan-Degrading Metalloproteinase Inhibitors 101

**KRZYSZTOF JONDERKO, JEAN-PIERRE FERRÉ, and LIONEL BUÉNO**
Real-Time Ultrasonography as a Noninvasive Tool for the Examination of Canine Gallbladder Emptying: A Validation Study 107

**M. M. BARZAGO, D. OMARINI, J. J. ARAMAYONA, and M. BONATI**
*In Situ* Perfusion in the Rabbit: Effects of Different Umbilical Flow Rates on Placental Transfer of Compounds 113

**T. HARADA, P. LEVOUNIS, and C. E. CONSTANTINOU**
Rapid Evaluation of the Efficacy of Pharmacologic Agents and Their Analogs in Enhancing Bladder Capacity and Reducing the Voiding Frequency 119

**JOHN F. TEMPLETON**
REVIEW: *The Dictionary of Steroids* 127

**H. P. LEFEBVRE, A. CARDONA, P. L. TOUTAIN, E. MOREL, J. F. BACH, and B. VERNET-DER-GARABEDIAN**
A Simple Method for the Quantitative Evaluation of Neuromuscular Blockade in Mice 129

**ROBERT A. YOKEL, DAVID D. ALLEN, DAVID E. BURGIO, and PATRICK J. McNAMARA**
Antipyrine as a Dialyzable Reference to Correct Differences in Efficiency Among and Within Sampling Devices During In Vivo Microdialysis 135

**DAVID RAEBURN, STEPHEN L. UNDERWOOD, and MARIA ELENA VILLAMIL**
Techniques for Drug Delivery to the Airways, and the Assessment of Lung Function in Animal Models 143

**JOHANNES SCHENK and JOHN H. McNEILL**
The Pathogenesis of DOCA–Salt Hypertension 161

**JOHANNES SCHENK, ANTHONY HEBDEN, and JOHN H. McNEILL**
Measurement of Cardiac Left Ventricular Pressure in Conscious Rats Using a Fluid-Filled Catheter 171

**ANDREW E. KYLES, AVRIL WATERMAN, and ALEX LIVINGSTON**
Chronic Intrathecal Catheterization in the Sheep 177

**WILLIAM G. LOVE, JEREMY P. CAMILLERI, and BRYAN D. WILLIAMS**
Efficient Clodronate Entrapment Within Multilamellar and Unilamellar Liposomes 185

**HANNES TODT and GERHARD RABERGER**
Epicardial His Bundle Recordings in the Guinea Pig In Vivo 191

**ANTONIO D'AMORE, FLAVIA CHIAROTTI, and PAOLO RENZI**
High-Intensity Nociceptive Stimuli Minimize Behavioral Effects Induced by Restraining Stress During the Tail-Flick Test 197

**PRAMOD T. JAIN, J. THOMAS PENTO, and DONALD C. GRAVES**
Cell-Growth Quantitation Methods for the Evaluation of Antiestrogens in Human Breast Cancer Cells in Culture 203

**HAN-TONG CHEN, MIKE CLARK, and DAVID GOLDMAN**
Quantitative Autoradiography of $^{3}$H-Paroxetine Binding Sites in Rat Brain 209

**PETER J. RICE**
Three-Dimensional Electrocardiography in the Rat 217

**ERIC G. SPOKAS and TZE-CHEIN WUN**
Venous Thrombosis Produced in the Vena Cava of Rabbits by Vascular Damage and Stasis 225

**SUZANNE HILL, IAN M. WHYTE, ANTHONY J. SMITH, and TREVOR WHITE**
A Computerized Method for Measurement and Analysis of Blood Pressure in Small Animals 233

**A. A. ALICH, L. E. WITTMERS, JR., LEE A. ANDERSON, ELISE M. RIESCHL, and PATRICIA L. PETERSON**
Gastric Mucosal Damage Due to Aspirin and Copper Aspirinate Assessed by Gastric Mucosal Potential Difference Changes 245